

Reference List

1. Behe, M. J.; Lattman, E. E., and Rose, G. D. The protein-folding problem: the native fold determines packing, but does packing determine the native fold? *Proc Natl Acad Sci U S A*. 1991 May 15; 88(10):4195-9.
2. Boucherle, A.; Fillion, H., and Cousse, H. [Contribution of stereochemistry to the study of the spatial organization of pharmacological receptors]. *J Pharmacol*. 1986; 17 Suppl 2:44-58.
3. Bransome, E. D. Jr; Hendry, L. B.; Muldoon, T. G.; Mahesh, V. B.; Hutson, M. S., and Campbell, L. K. Apparent stereochemical complementarity of estrogens and helical cavities between DNA base pairs: implications for the mechanism of action of steroids. *J Theor Biol*. 1985 Jan 7; 112(1):97-108.
4. Celikel, R.; Madhusudan; Varughese, K. I.; Shima, M.; Yoshioka, A.; Ware, J., and Ruggeri, Z. M. Crystal structure of NMC-4 fab anti-von Willebrand factor A1 domain. *Blood Cells Mol Dis*. 1997; 23(1):123-34.
5. Edmundson, A. B. and Ely, K. R. Binding of N-formylated chemotactic peptides in crystals of the Mcg light chain dimer: similarities with neutrophil receptors. *Mol Immunol*. 1985 Apr; 22(4):463-75.
6. Harris, L. F.; Sullivan, M. R., and Hatfield, D. L. Directed molecular evolution. *Orig Life Evol Biosph*. 1999 Aug; 29(4):425-35.
7. Hendry, L. B. Drug design with a new type of molecular modeling based on stereochemical complementarity to gene structure. *J Clin Pharmacol*. 1993 Dec; 33(12):1173-87.
8. ---. Stereochemical complementary of DNA and steroid agonists and antagonists. *J Steroid Biochem*. 1988 Oct; 31(4B):493-523.
9. Hendry, L. B.; Bransome, E. D. Jr; Lehner, A. F.; Muldoon, T. G.; Hutson, M. S., and Mahesh, V. B. The stereochemical complementarity of DNA and reproductive steroid hormones correlates with biological activity. *J Steroid Biochem*. 1986 Apr; 24(4):843-52.
10. Hendry, L. B. and Mahesh, V. B. Stereochemical complementarity of progesterone and cavities between base pairs in partially unwound double stranded DNA using computer modeling and energy calculations to determine degree of fit. *J Steroid Biochem Mol Biol*. 1991 Aug; 39(2):133-46.
11. ---. Stereochemical complementarity of progesterone, RU486 and cavities between base pairs in partially unwound double stranded DNA assessed by computer modelling and energy calculations. *J Steroid Biochem Mol Biol*. 1992 Mar; 41(3-8):647-51.
12. Hendry, L. B.; Muldoon, T. G., and Mahesh, V. B. The metabolic pathways for hormonal steroids appear to be reflected in the stereochemistry of DNA. *J Steroid Biochem Mol Biol*. 1992 Aug; 42(7):659-70.

13. ---. Stereochemical complementarity between antiestrogens and DNA. *Adv Exp Med Biol.* 1987; 219:743-7.
14. Heywood, B. R. Biomineralization: new directions in crystal science. *Microsc Res Tech.* 1994 Apr 1; 27(5):376-88.
15. Kajava, A. V.; Bogdanov, M. V., and Nesmeyanova, M. A. Stereochemical analysis of interaction of signal peptide with phospholipids at the initiation of protein translocation across the membrane. *J Biomol Struct Dyn.* 1991 Aug; 9(1):143-57.
16. Korolkovas, A. [Action of hormones at the molecular level]. *Rev Paul Med.* 1973 Mar; 81(3):169-78.
17. Lee, A. Y.; Smitka, T. A.; Bonjouklian, R., and Clardy, J. Atomic structure of the trypsin-A90720A complex: a unified approach to structure and function. *Chem Biol.* 1994 Oct; 1(2):113-7.
18. Lee, M.; Chang, D. K.; Pon, R. T., and Lown, J. W. Sequence dependent conformation and local geometry of the conserved branch site sequence element d(TpApCpTpApApC), essential for yeast mRNA splicing, deduced from high resolution ¹H-NMR. *J Biomol Struct Dyn.* 1987 Aug; 5(1):35-46.
19. Matta, C. F. and Bader, R. F. Atoms-in-molecules study of the genetically encoded amino acids. III. Bond and atomic properties and their correlations with experiment including mutation-induced changes in protein stability and genetic coding. *Proteins.* 2003 Aug 15; 52(3):360-99.
20. Muller, G.; Gurrath, M., and Kessler, H. Pharmacophore refinement of gpIIb/IIIa antagonists based on comparative studies of antiadhesive cyclic and acyclic RGD peptides. *J Comput Aided Mol Des.* 1994 Dec; 8(6):709-30.
21. Mylvaganam, S. E.; Paterson, Y., and Getzoff, E. D. Structural basis for the binding of an anti-cytochrome c antibody to its antigen: crystal structures of FabE8-cytochrome c complex to 1.8 Å resolution and FabE8 to 2.26 Å resolution. *J Mol Biol.* 1998 Aug 14; 281(2):301-22.
22. Parhami-Seren, B.; Kussie, P. H.; Strong, R. K., and Margolies, M. N. Conservation of binding site geometry among p-azophenylarsonate-specific antibodies. *J Immunol.* 1993 Mar 1; 150(5):1829-37.
23. Pastor, N.; Pardo, L., and Weinstein, H. Does TATA matter? A structural exploration of the selectivity determinants in its complexes with TATA box-binding protein. *Biophys J.* 1997 Aug; 73(2):640-52.
24. Prieur, B. A stereochemical relationship could explain the origin of the genetic code. *C R Acad Sci III.* 1992; 314(6):245-52.
25. Rowland, M. J.; Bransome, E. D. Jr, and Hendry, L. B. Hypoglycemia caused by selegiline, an antiparkinsonian drug: can such side effects be predicted? *J Clin Pharmacol.* 1994 Jan; 34(1):80-5.

26. Uberoi, N. K.; Hendry, L. B.; Muldoon, T. G.; Myers, R. B.; Segaloff, A.; Bransome, E. D., and Mahesh, V. B. Structure-activity relationships of some unique estrogens related to estradiol are predicted by fit into DNA. *Steroids*. 1985 Mar-1985 Apr 30; 45(3-4):325-40.
27. Warwicker, J. Investigating protein-protein interaction surfaces using a reduced stereochemical and electrostatic model. *J Mol Biol*. 1989 Mar 20; 206(2):381-95.
28. Westall, F. C. and Root-Bernstein, R. S. An explanation of prevention and suppression of experimental allergic encephalomyelitis. *Mol Immunol*. 1983 Feb; 20(2):169-77.
29. Williams, R. M. and Jones, R. Specificity of binding of zona pellucida glycoproteins to sperm proacrosin and related proteins. *J Exp Zool*. 1993 May 15; 266(1):65-73.
30. Wust, M. and Croteau, R. B. Hydroxylation of specifically deuterated limonene enantiomers by cytochrome p450 limonene-6-hydroxylase reveals the mechanism of multiple product formation. *Biochemistry*. 2002 Feb 12; 41(6):1820-7.
31. Yamashita, A.; Kato, H.; Wakatsuki, S.; Tomizaki, T.; Nakatsu, T.; Nakajima, K.; Hashimoto, T.; Yamada, Y., and Oda, J. Structure of tropinone reductase-II complexed with NADP⁺ and pseudotropine at 1.9 Å resolution: implication for stereospecific substrate binding and catalysis. *Biochemistry*. 1999 Jun 15; 38(24):7630-7.